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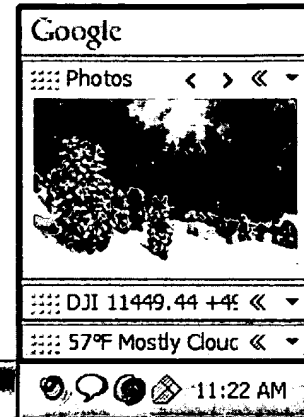
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» Key

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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1 [Improving the granularity of access control for Windows 2000](#)



Michael M. Swift, Anne Hopkins, Peter Brundrett, Cliff Van Dyke, Praerit Garg, Shannon Chan, Mario Goertzel, Gregory Jensenworth

November 2002 **ACM Transactions on Information and System Security (TISSEC)**,

Volume 5 Issue 4

Publisher: ACM Press

Full text available: pdf(447.78 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article presents the mechanisms in Windows 2000 that enable fine-grained and centrally managed access control for both operating system components and applications. These features were added during the transition from Windows NT 4.0 to support the Active Directory, a new feature in Windows 2000, and to protect computers connected to the Internet. While the access control mechanisms in Windows NT are suitable for file systems and applications with simple requirements, they fall short of the ...

Keywords: Access control lists, Microsoft Windows 2000, Windows NT, active directory

2 [ObjectGlobe: Ubiquitous query processing on the Internet](#)

R. Braumandl, M. Keidl, A. Kemper, D. Kossmann, A. Kreutz, S. Seltzsam, K. Stocker
August 2001 **The VLDB Journal — The International Journal on Very Large Data**

Bases, Volume 10 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(251.44 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We present the design of ObjectGlobe, a distributed and open query processor for Internet data sources. Today, data is published on the Internet via Web servers which have, if at all, very localized query processing capabilities. The goal of the ObjectGlobe project is to establish an open marketplace in which *data* and *query processing capabilities* can be distributed and used by any kind of Internet application. Furthermore, ObjectGlobe integrates *cycle providers* (i.e., machi ...

Keywords: Cycle-, function- and data provider, Distributed query processing, Open systems, Privacy, Quality of service, Query optimization, Security

3 [Improving the granularity of access control in Windows NT](#)



Michael M. Swift, Peter Brundrett, Cliff Van Dyke, Praerit Garg, Anne Hopkins, Shannon Chan, Mario Goertzel, Gregory Jensenworth
May 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: [pdf\(259.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents the access control mechanisms in Windows 2000 that enable fine-grained protection and centralized management. These mechanisms were added during the transition from Windows NT 4.0 to support the Active Directory, a new feature in Windows 2000. We first extended entries in access control lists to allow rights to apply to just a portion of an object. The second extension allows centralized management of object hierarchies by specifying more precisely how access control lists ...

Keywords: Windows 2000, access control lists

4 Secure virtual enclaves: Supporting coalition use of distributed application technologies



May 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 2

Publisher: ACM Press

Full text available: [pdf\(462.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

The Secure Virtual Enclaves (SVE) collaboration infrastructure allows multiple organizations to share their distributed application objects, while respecting organizational autonomy over local resources. The infrastructure is transparent to applications, which may be accessed via a web server, or may be based on Java or Microsoft's DCOM. The SVE infrastructure is implemented in middleware, with no modifications to COTS operating systems or network protocols. The system enables dynamic updates to ...

Keywords: Access control, coalition, collaborative system, group communication, middleware, security policy

5 Fast detection of communication patterns in distributed executions



Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

6 Stateful distributed interposition



John Reumann, Kang G. Shin
February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

Publisher: ACM Press

Full text available: [pdf\(833.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Interposition-based system enhancements for multitiered servers are difficult to build

because important system context is typically lost at application and machine boundaries. For example, resource quotas and user identities do not propagate easily between cooperating services that execute on different hosts or that communicate with each other via intermediary services. Application-transparent system enhancement is difficult to achieve when such context information is obscured by complex service ...

Keywords: Distributed computing, component services, distributed context, multitiered services, operating systems, server consolidation

7 The KaffeOS Java runtime system



Godmar Back, Wilson C. Hsieh

July 2005 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 27 Issue 4

Publisher: ACM Press

Full text available: [pdf\(704.30 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Single-language runtime systems, in the form of Java virtual machines, are widely deployed platforms for executing untrusted mobile code. These runtimes provide some of the features that operating systems provide: interapplication memory protection and basic system services. They do not, however, provide the ability to isolate applications from each other. Neither do they provide the ability to limit the resource consumption of applications. Consequently, the performance of current systems degrades ...

Keywords: Robustness, garbage collection, isolation, language runtimes, resource management, termination, virtual machines

8 Security issues surrounding programming languages for mobile code: JAVA vs. Safe-



Tcl

Stefanos Gritzalis, George Aggelis

April 1998 **ACM SIGOPS Operating Systems Review**, Volume 32 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.42 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

JAVA is claimed to be a system programming language having a number of advantages over traditional programming languages. These advantages stem from the fact that it is a platform-independent language, thus promising truly network-oriented computing as long as a nearly universal system for distributing applications. On the other hand, although being an interpreted, much simpler, scripting language, Safe-Tcl was proposed as an executable contents type of MIME and thus as the standard language for ...

9 Scheduling and resource allocation: SHARP: an architecture for secure resource



peering

Yun Fu, Jeffrey Chase, Brent Chun, Stephen Schwab, Amin Vahdat

October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Publisher: ACM Press

Full text available: [pdf\(339.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents Sharp, a framework for secure distributed resource management in an Internet-scale computing infrastructure. The cornerstone of Sharp is a construct to represent cryptographically protected resource *claims*---promises or rights to control resources for designated time intervals---together with secure mechanisms to subdivide and delegate claims across a network of resource managers. These mechanisms enable flexible *resource peering* ...

Keywords: peer-to-peer, resource allocation, resource peering

10 Formalizing the safety of Java, the Java virtual machine, and Java card



Pieter H. Hartel, Luc Moreau

December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

Publisher: ACM Press

Full text available: pdf(442.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We review the existing literature on Java safety, emphasizing formal approaches, and the impact of Java safety on small footprint devices such as smartcards. The conclusion is that although a lot of good work has been done, a more concerted effort is needed to build a coherent set of machine-readable formal models of the whole of Java and its implementation. This is a formidable task but we believe it is essential to build trust in Java safety, and thence to achieve ITSEC level 6 or Common Crite ...

Keywords: Common criteria, programming

11 An operating system approach to securing e-services



Chris Dalton, Tse Huong Choo

February 2001 **Communications of the ACM**, Volume 44 Issue 2

Publisher: ACM Press

Full text available: pdf(132.65 KB) html(34.72 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 A survey of peer-to-peer content distribution technologies



Stephanos Androutsellis-Theotokis, Diomidis Spinellis

December 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 4

Publisher: ACM Press

Full text available: pdf(517.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Distributed computer architectures labeled "peer-to-peer" are designed for the sharing of computer resources (content, storage, CPU cycles) by direct exchange, rather than requiring the intermediation or support of a centralized server or authority. Peer-to-peer architectures are characterized by their ability to adapt to failures and accommodate transient populations of nodes while maintaining acceptable connectivity and performance. Content distribution is an important peer-to-peer application ...

Keywords: Content distribution, DHT, DOLR, grid computing, p2p, peer-to-peer

13 Towards a secure platform for distributed mobile object computing



Marc Lacoste

April 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 2

Publisher: ACM Press

Full text available: pdf(1.42 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

We present some issues relevant to the design of a secure platform for distributed mobile computing, that goes beyond existing ad-hoc approaches to software mobility. This platform aims to support wide-area computing applications such as active network infrastructures or network supervision tools. Our contribution is two-fold: the first part of

the paper is a survey of the security features of a few languages and virtual machines as regards authentication, access control, and communications secu ...

14 Constraints: On context in authorization policy



Patrick McDaniel

June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: [pdf\(316.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Authorization policy infrastructures are evolving with the complex environments that they support. However, the requirements and technologies supporting context are not yet well understood. Often implemented as condition functions or predefined attributes, context is used to more precisely control when and how policy is enforced. This paper considers context requirements and services in authorization policy. The properties and security requirements of context evaluation are classified. A key obs ...

Keywords: authorization, context, distributed systems, policy, policy-oriented programming, security requirements

15 Extensibility safety and performance in the SPIN operating system



B. N. Bershad, S. Savage, P. Pardyak, E. G. Sirer, M. E. Fiuczynski, D. Becker, C. Chambers, S. Eggers

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95**, Volume 29 Issue 5

Publisher: ACM Press

Full text available: [pdf\(2.32 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 Process migration



Dejan S. Milojević, Fred Douglass, Yves Paindaveine, Richard Wheeler, Songnian Zhou
September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

17 Labels and event processes in the asbestos operating system



Petros Efstathopoulos, Maxwell Krohn, Steve VanDeBogart, Cliff Frey, David Ziegler, Eddie Kohler, David Mazières, Frans Kaashoek, Robert Morris

October 2005 **ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05**, Volume 39 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(258.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Asbestos, a new prototype operating system, provides novel labeling and isolation mechanisms that help contain the effects of exploitable software flaws. Applications can express a wide range of policies with Asbestos's kernel-enforced label mechanism, including controls on inter-process communication and system-wide information flow. A new event process abstraction provides lightweight, isolated contexts within a single process, allowing the same process to act on behalf of multiple users while ...

Keywords: event processes, information flow, labels, mandatory access control, secure web servers


18 [Extensible security architectures for Java](#)



Dan S. Wallach, Dirk Balfanz, Drew Dean, Edward W. Felten

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(2.15 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 [Access rights analysis for Java](#)



Larry Koved, Marco Pistoia, Aaron Kershenbaum

November 2002 **ACM SIGPLAN Notices , Proceedings of the 17th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '02**, Volume 37 Issue 11

Publisher: ACM Press

Full text available:  [pdf\(360.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Java 2 has a security architecture that protects systems from unauthorized access by mobile or statically configured code. The problem is in manually determining the set of security access rights required to execute a library or application. The commonly used strategy is to execute the code, note authorization failures, allocate additional access rights, and test again. This process iterates until the code successfully runs for the test cases in hand. Test cases usually do not cover all paths th ...

Keywords: Java security, access rights, call graph, data flow analysis, invocation graph, security


20 [Architecture for Protecting Critical Secrets in Microprocessors](#)



Ruby B. Lee, Peter C. S. Kwan, John P. McGregor, Jeffrey Dwoskin, Zhenghong Wang

May 2005 **ACM SIGARCH Computer Architecture News , Proceedings of the 32nd Annual International Symposium on Computer Architecture ISCA '05**, Volume 33 Issue 2

Publisher: IEEE Computer Society, ACM Press

Full text available:  [pdf\(143.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

We propose "secret-protected (SP)" architecture to enable secure and convenient protection of critical secrets for a given user in an on-line environment. Keys are examples of critical secrets, and key protection and management is a fundamental problem & often assumed but not solved & underlying the use of cryptographic protection of sensitive files, messages, data and programs. SP-processors contain a minimalist set of architectural features that can be built into a general-purpose microprocess ...

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